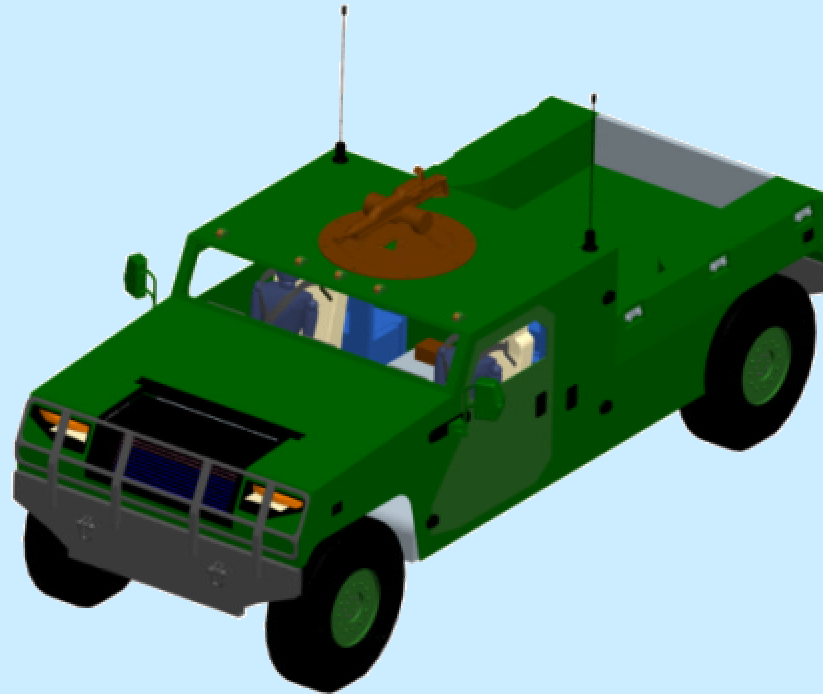


FTTS Utility Vehicle UV2 **Concept Review**



FTTS UV2 Support Variant

Jan. 5, 2005

Report Documentation Page			Form Approved OMB No. 0704-0188		
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13. SUPPLEMENTARY NOTES					
14. ABSTRACT GOVERNMENT CONCEPTS TO SUPPORT THE FUTURE TACTICAL TRUCK SYSTEMS (FTTS) DEVELOPMENT. THIS BRIEFING EXPLAINS THE TRUCK CONCEPT BY DESCRIBING THE VEHICLE THROUGH MAJOR SUBSYSTEM CATEGORIES SUCH AS MOBILITY, SURVIVABILITY, & C4I TECHNOLOGIES. IT ALSO PROVIDES AN OVERVIEW OF THE WEIGHT BREAKDOWN AND TOP LEVEL SYSTEM CHARACTERISTICS.					
15. SUBJECT TERMS					
16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT	18. NUMBER OF PAGES 7	19a. NAME OF RESPONSIBLE PERSON
a. REPORT unclassified	b. ABSTRACT unclassified	c. THIS PAGE unclassified			

FTTS UV2 SPT Characteristics

Cab Seating: 2 Man

Axle Configuration: 4 x 4

Curb Weight: 12,315 lbs

Gross Vehicle Weight (GVW):

18,001 lbs

Length: 223"

Width: 86"

Height: 79"

Track: 74"

Maximum Speed: 65 mph (105 Kph)

Tires: 12.00R20 XML LRG Michelin

Central Tire Inflation: Yes

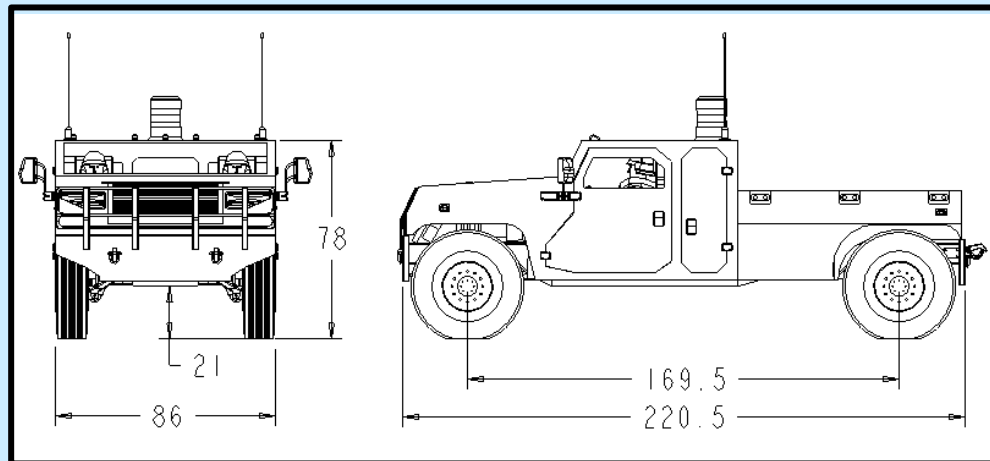
Fuel Capacity: 45 gal (170 liters)

Air Transportability: C130, C141, C17

Engine: Cummins ISB

Transmission: Electric Drive

Suspension: Independent w/Variable Damping



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FTTS UV2 WEIGHT STUDY

FTTS-UV-SPT, (2 CREW) Envisioned Weight Study

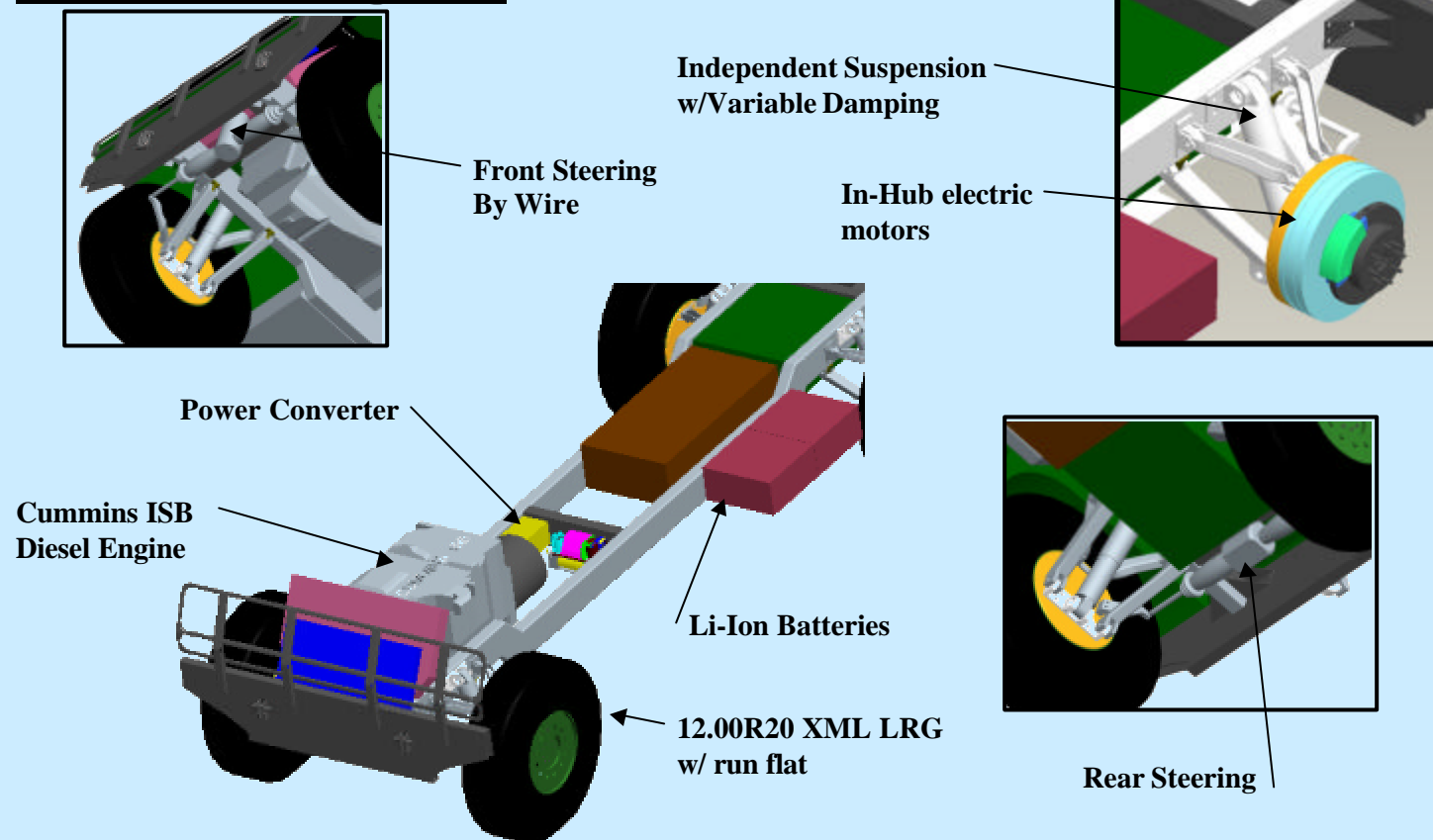
(December 2004)

SYSTEM			WEIGHT
1. Structure			5,009
A. Cab Structure (5/16" Steel)			1,687
B. Front Door (5/16" steel) (2)		165	330
C. Back Door (2)		79	159
D. Floor			663
E. Cargo Bed (Tailgate, Tiedowns, Lights)			617
F. Frame			1,553
1. Frame and Supports		758	
2. Attachments		322	
3. Bumper system	236	473	
2. VETRONICS			726
A. Integrated operator console (Controls, JTRS, Displays)			278
B. C4ISR Tower Driver			258
1. Rack Structure		49	
2. Computer #1		67	
3. Computer #2		67	
4. Automatic RF Distribution		25	
5. Cosite Interface Mitigation Device		50	
C. C4ISR Tower Passenger			191
1. Rack Structure		49	
2. Computer #3		65	
3. Vetronics Crewstation		22	
4. Vetronics Power Module		20	
5. R2 Data Storage Unit Removeable		10	
6. Combat ID Processor and Receiver		17	
7. Universal HD Power Amp(2) & JTRS Remote Head Control		8	
3. AUTOMOTIVE			3,359
A. Tire Assembly (4)		392	1,568
1. Tire (Michelin 12R20 XML)		168	
2. Rim (20"x8.5" bolt-together aluminum)		74	
3. Runflats		90	
4. Central Tire Inflation System		60	
B. In-Hub Drive (4)		202	808
C. Four Wheel Steering			97
D. Suspension			461
1. HydroStrut Unit (4)		68	272
2. Control Arms (4)		47	190
E. Brake Assemblies (4)		37	149
F. Seats (2)		129	258
G. Head Lamp/Blackout Lamp (2)		9	18

4. POWER MANAGEMENT			1,698
A. Prime Power			1,698
1. Prime Power (Cummins Engine 300hp)		961	
2. Generator		264	
3. Li-Ion Battery Pack (4)		63	250
4. Inverter (4)		35	140
5. Converter			15
6. Radiator & Oil Radiator			38
7. Alternator			30
5. SURVIVABILITY			1,141
A. On-Board Systems			415
1. Environmental Control Unit (ECU)		300	
2. NBC System		95	
3. On Board Water Generation			
4. Fire Extinguishers (5 lbs) (2)		20	
B. Window Protection			218
1. Windshield (Sapphire 7.62AP)			100
2. Rear Window (Sapphire 7.62AP)			69
3. Side Windows (Sapphire 7.62 AP)	25	49	
C. Objective Crew Served Weapon			200
1. Weapon		150	
2. Rounds (100 rds @0.5 lb/rd)		50	
D. FCLAS-APS			132
E. Armored Grille			176
6. FUEL			382
A. Fuel Tank			45
B. Fuel (45 gal @7.48lbs/gal)			337
CURB WEIGHT (LBS)			12,315
7. CREW			686
A. Basic crew (2)		220	440
B. BII (2)		123	246
8. PAYLOAD (LBS)			5,000
GROSS VEHICLE WEIGHT (LBS)			18,001
TONS (US)			9.0

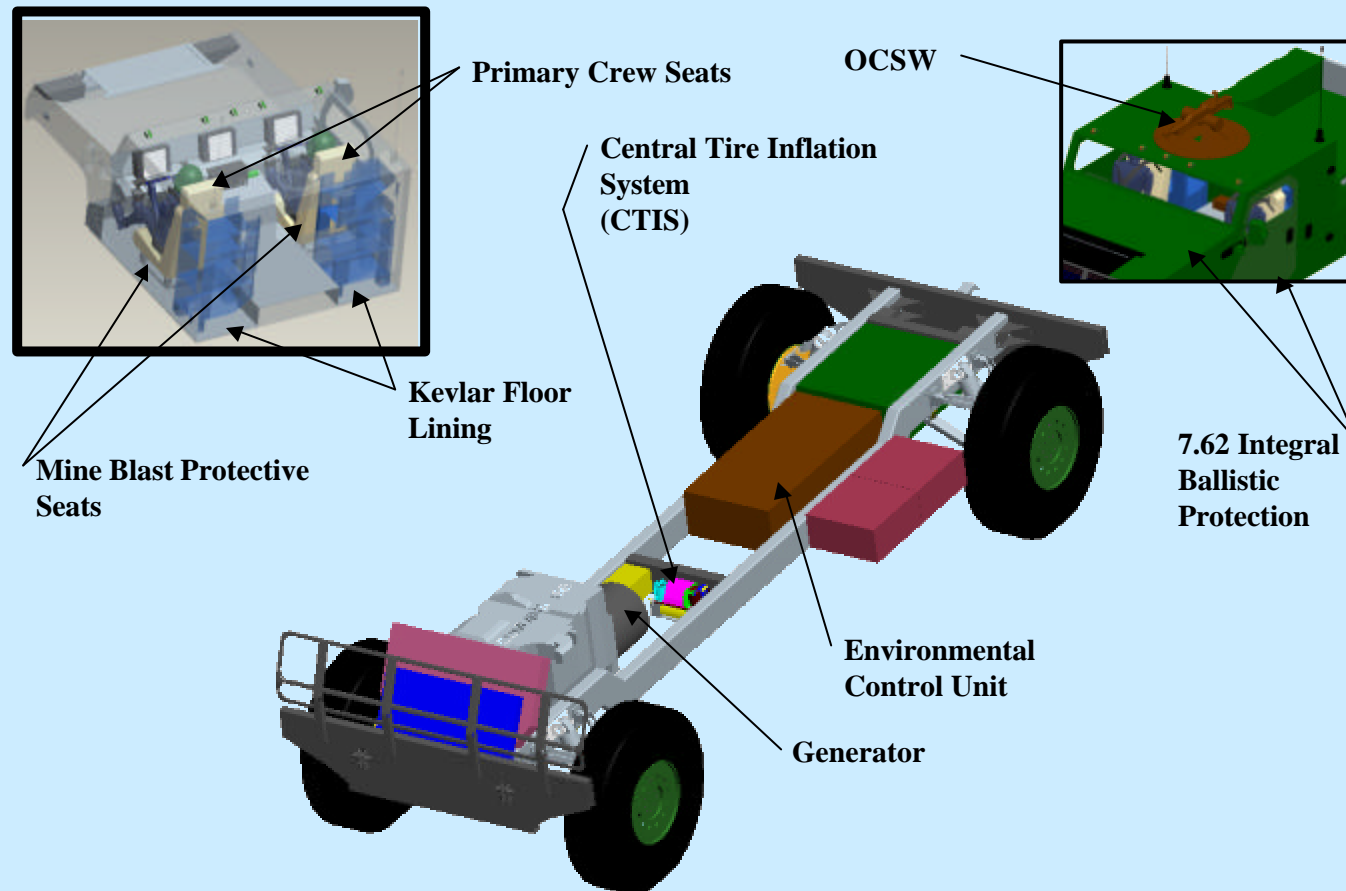
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FTTS UV2 Mobility Technologies



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FTTS UV2 Survivability Technologies

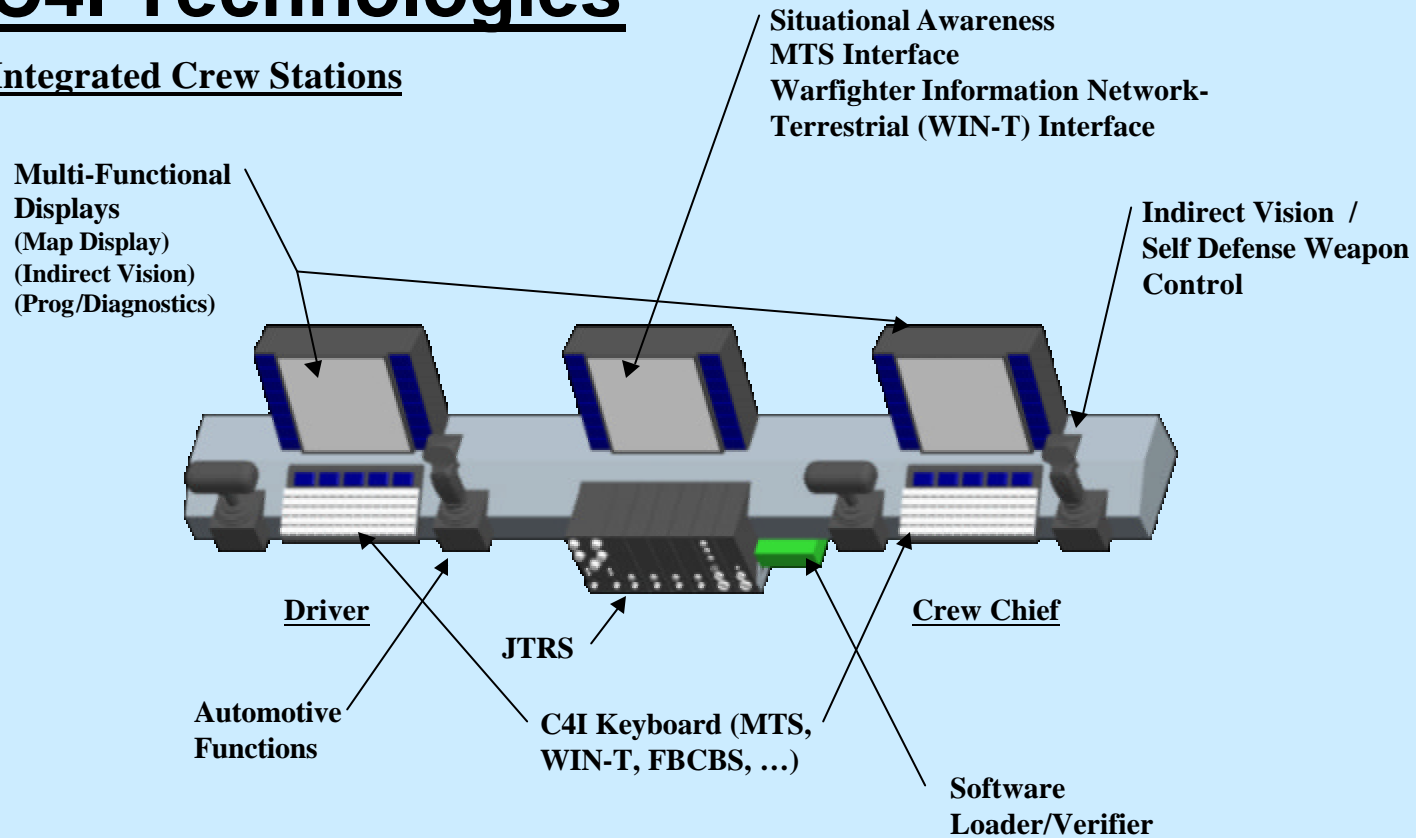


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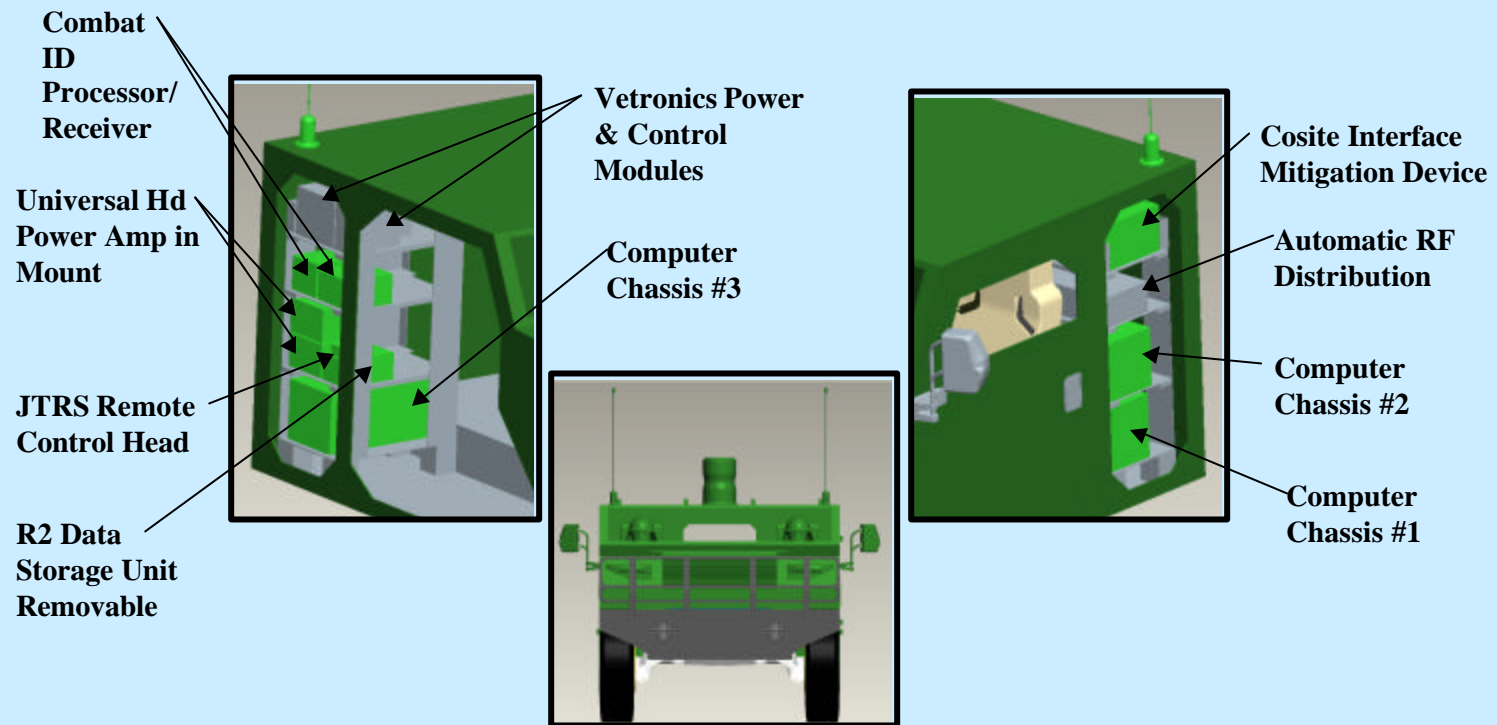
C4I Technologies

Integrated Crew Stations



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FTTS UV2 C4I Technologies



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